820 PATENT ABSTRACTS OF JAPAN

(11)Publication numb r:

62-232919

(43)Dat of publication of application: 13.10.1987

(51)Int.CI.

H01L 21/205 H01L 21/263

(21)Application number: 61-076284

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(22)Date of filing:

02.04,1986

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(54) CRYSTAL GROWTH

(57)Abstract:

PURPOSE: To realize ideal atomic layer epitaxy,by supplying raw material gases alternately and performing luminous radiation on a surface of a substrate crystal.

CONSTITUTION: At least two kinds of raw material gases are alternately supplied in a vapor epitaxial growth method of compound crystal, and luminous radiation is performed on a surface of a substrate crystal. Then, growth temperature is made to become low, and therefore thermal decomposing reaction of the compound in the raw material gas is suppressed, so that surface photo-chemical reaction becomes a main one. Therefore, atomic layers are made to epitaxially grow digitally one by one on the substrate crystal. Hence, ideal atomic layer epitaxy is realized.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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